SEQUENCES

SEQ ID #1 agfA DNA sequence

SEQ ID #2 agfB DNA Sequence

SEQ ID #3 csgA DNA Sequence

SEQ ID #4 csgB DNA Sequence

ATGAAAACAATTGTTATTATGATGTTAACAATACTGGGTGCGCCTGGGATTGCAGCCGC AGCAGGTTATGATTTAGCTAATTCAGAATATAACTTCGCGGTAAATGAATTGAGTAAGTCTT CATTTAATCAGGCAGCCATAATTGGTCAAGCTGGGACTAATAATAGTGCTCAGTTACGGCAG GGAGGCTCAAAACTTTTGGCGGTTGTTGCGCAAGAAGGTAGTAGCAACCGGGCAAAGATTGA CCAGACAGGAGATTATAACCTTGCATATATTGATCAGGCGGGCAGTGCCAACGATGCCAGTA TTTCGCAAGGTGCTTATGGTAATACTGCGATGATTATCCAGAAAGGTTCTGGTAATAAAGCA AATATTACACAGTATGGTACTCAAAAAACGGCAATTGTAGTGCAGAGACAGTCGCAAATGGC TATTCGCGTGACACAACGTTAA

SEQ ID #5 AgfA protein Sequence

MKLLKVAAFAAIVVSGSALAGVVPQWGGGGNHNGGGNSSGPDSTLSIYQYGSANAALALQSD ARKSETTITQSGYGNGADVGQGADNSTIELTQNGFRNNATIDQWNAKNSDITVGQYGGNNAA LVNQTASDSSVMVRQVGFGNNATANQY

SEQ ID #6 AgfB protein Sequence

MKNKLLFMMLTILGAPGIATATNYDLARSEYNFAVNELSKSSFNQAAIIGQVGTDNSARVRQ EGSKLLSVISQEGGNNRAKVDQAGNYNFAYIEQTGNANDASISQSAYGNSAAIIQKGSGNKA NITQYGTQKTAVVVQKQSHMAIRVTQR

SEQ ID #7 CsgA protein sequence

MKLLKVAAIAAIVFSGSALAGVVPQYGGGGNHGGGGNNSGPNSELNIYQYGGGNSALALQTD ARNSDLTITQHGGGNGADVGQGSDDSSIDLTQRGFGNSATLDQWNGKNSEMTVKQFGGGNGA AVDQTASNSSVNVTQVGFGNNATAHQY

SEQ ID #8 CsgB protein sequence

MKNKLLFMMLTILGAPGIAAAAGYDLANSEYNFAVNELSKSSFNQAAIIGQAGTNNSAQLRQ GGSKLLAVVAQEGSSNRAKIDQTGDYNLAYIDQAGSANDASISQGAYGNTAMIIQKGSGNKA NITQYGTQKTAIVVQRQSQMAIRVTQR

SEQ ID #9
PT3 epitope DNA sequence
TATGATCAGCTGGTTACCCGTGTTGTTACCCATGAAATGGCACATGCA

SEQ ID #10 PT3 epitope protein sequence YDQLVTRVVTHEMAHA

SEQ ID #11

AqfA::PT3#1 DNA sequence

SEQ ID #12

AgfA::PT3#1 protein sequence

 $\label{thm:mklkvaafaaivvsgsalagvvpqwggggnhngggnssgpdstlsiyqygsanaalalqsdarksettitqsgygngadvgqgadnstieltqngfrnnatidqwnaknsditvgqyggnnaalvnydqlvtrvvthemahannatanqy$

SEO ID #13

AgfA::PT3#2 DNA sequence

SEQ ID #14

AgfA::PT3#2 protein sequence

 $\label{thm:mklkvaafaaivvsgsalagvvpqwggggnhngggnssgpdstlsiyqygsanaalalqsdarksettitqsgygngadvgqgadnstieltqngfrnnatidqwnaknsditvgqydqlvtrvvvthemahasvmvrovgfgnnatanqy$

SEO ID #15

AqfA::PT3#3 DNA sequence

SEQ ID #16

AgfA::PT3#3 protein sequence

MKLLKVAAFAAIVVSGSALAGV<u>YDQLVTRVVTHEMAHA</u>SGPDSTLSIYQYGSANAALALQSD ARKSETTITQSGYGNGADVGQGADNSTIELTQNGFRNNATIDQWNAKNSDITVGQYGGNNAA LVNQTASDSSVMVRQVGFGNNATANQY

SEO ID #17

AgfA::PT3#4 DNA sequence

SEQ ID #18

AgfA::PT3#4 protein sequence

 $\label{eq:mklkvaafaaivvsgsalagvvpqwggggnhngggnssgpd\underline{ydqlvtrvvthemaha}lqsd\\ arksettitqsgygngadvgqgadnstieltqngfrnnatidqwnaknsditvgqyggnnaa\\ lvnqtasdssvmvrqvgfgnnatanqy$

SEO ID #19

AgfA::PT3#5 DNA sequence

SEQ ID #20

AgfA::PT3#5 protein sequence

MKLLKVAAFAAIVVSGSALAGVVPQWGGGGNHNGGGNSSGPDSTLSIYQYGSANAALALQSD ARK<u>YDQLVTRVVTHEMAHA</u>GQGADNSTIELTQNGFRNNATIDQWNAKNSDITVGQYGGNNAA LVNQTASDSSVMVRQVGFGNNATANQY

SEQ ID #21

AgfA::PT3#6 DNA sequence

SEQ ID #22

AgfA::PT3#6 protein sequence

 $\label{eq:mklkvaafaa} MKLLKVAAFAAIVVSGSALAGVVPQWGGGGNHNGGGNSSGPDSTLSIYQYGSANAALALQSD\\ ARKSETTITQSGYGNGADVGQGADN<u>YDQLVTRVVTHEMAHA</u>DQWNAKNSDITVGQYGGNNAALVNQTASDSSVMVRQVGFGNNATANQY$

SEQ ID #23

AgfA::PT3#7 DNA sequence

SEQ ID #24

AqfA::PT3#7 protein sequence

MKLLKVAAFAAIVVSGSALAGVVPQWGGGGNHNGGGNSSGPDSTLSIYQYGSANAALALQSD ARKSETTITQSGYGNGADVGQGADNSTIELTQNGFRNNATIDQWNAKN<u>YDQLVTRVVTHEMA</u> HANQTASDSSVMVRQVGFGNNATANQY

SEQ ID #25

AqfA::PT3#8 DNA sequence

SEQ ID #26

AgfA::PT3#8 protein sequence

MKLLKVAAFAAIVVSGSALAGVVPQWGGGGNHNGGGNSSGPDSTLSIYQYGSANAAL<u>YDQLV</u> <u>TRVVTHEMAHA</u>GYGNGADVGQGADNSTIELTQNGFRNNATIDQWNAKNSDITVGQYGGNNAA LVNQTASDSSVMVRQVGFGNNATANQY

SEO ID #27

AgfA::PT3#9 DNA sequence

SEQ ID #28

AgfA::PT3#9 protein sequence

 $\label{eq:mklkvaafaaivvsgsalagvvpqwggggnhngggnssgpdstlsiyqygsanaalalqsdarksettitqsgygngadydqlvtrvvthemahafrnnatidqwnaknsditvgqyggnnaalvnqtasdssvmvrqvgfgnnatanqy$

SEO ID #29

AqfA::PT3#10 DNA sequence

SEQ ID #30

AgfA::PT3#10 protein sequence

MKLLKVAAFAAIVVSGSALAGVVPQWGGGGNHNGGGNSSGPDSTLSIYQYGSANAALALQSD ARKSETTITQSGYGNGADVGQGADNSTIELTQNGFRNNAT<u>YDQLVTRVVTHEMAHA</u>GGNNAA LVNQTASDSSVMVRQVGFGNNATANQY

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